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☐ 1. Document ID: US 6953581 B2

L3: Entry 1 of 19 File: USPT Oct 11, 2005

US-PAT-NO: 6953581
DOCUMENT-IDENTIFIER: US 6953581 B2

TITLE: Porcine circovirus and parvovirus vaccine

DATE-ISSUED: October 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allan; Gordon Moore	Belfast			IE
Meehan; Brian Martin	Belfast			IE
Ellis; John Albert	Saskatoon			CA
Krakowka; George Steven	Colombus	OH		
Audonnet; Jean-ChrJistophe Francis	Lyons			FR

US-CL-CURRENT: 424/202.1; 424/199.1, 424/201.1, 424/204.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 6943152 B1

L3: Entry 2 of 19 File: USPT Sep 13, 2005

US-PAT-NO: 6943152
DOCUMENT-IDENTIFIER: US 6943152 B1

TITLE: DNA vaccine-PCV

DATE-ISSUED: September 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Audonnet; Francis Jean-Christophe	Lyons			FR
Bublot; Michel	Delmar	NY		
Perez; Jennifer Maria	East Nassau	NY		
Charreyre; Catherine Elisabeth	Saint-Laurent de Mure			FR

US-CL-CURRENT: 514/44; 424/450, 424/93.1, 424/93.21, 435/320.1, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D.

☐ 3. Document ID: US 6878692 B2

L3: Entry 3 of 19 File: USPT Apr 12, 2005

US-PAT-NO: 6878692
DOCUMENT-IDENTIFIER: US 6878692 B2

TITLE: Apoptin-associating protein

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noteborn; Mathieu Hubertus M.	Leiderdorp			NL
Danen-van Oorschot; Astrid Adriana A. M.	Berkel en Rodenrijs			NL
Rohn; Jennifer Leigh	Amsterdam			NL

US-CL-CURRENT: 514/44; 435/325, 435/455, 536/23.1, 536/23.5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D.

☐ 4. Document ID: US 6723324 B2

L3: Entry 4 of 19 File: USPT Apr 20, 2004

US-PAT-NO: 6723324
DOCUMENT-IDENTIFIER: US 6723324 B2

TITLE: Chicken anaemia viruses of low pathogenicity

DATE-ISSUED: April 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schrier; Carla Christina	Boxmeer			NL
Jagt; Henricus Johannes Maria	Venlo			NL

US-CL-CURRENT: 424/204.1; 424/201.1, 424/202.1, 424/816, 435/235.1, 435/236

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D.

☐ 5. Document ID: US 6699479 B1

L3: Entry 5 of 19 File: USPT Mar 2, 2004

US-PAT-NO: 6699479
DOCUMENT-IDENTIFIER: US 6699479 B1

TITLE: Recombinant newcastle disease virus as an embryo vaccine

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mebatsion; Teshome	Boxmeer			NL
Schrier; Christina Carla	Boxmeer			NL

US-CL-CURRENT: 424/214.1; 424/204.1, 424/211.1, 435/235.1, 435/440, 435/456

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 6. Document ID: US 6660272 B2

L3: Entry 6 of 19 File: USPT Dec 9, 2003

US-PAT-NO: 6660272
DOCUMENT-IDENTIFIER: US 6660272 B2

TITLE: Porcine circoviruses, vaccines and diagnostic reagents

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allan; Gordon	Belfast			GB
Meehan; Brian	Belfast			GB
Clark; Edward	Saskatoon			CA
Ellis; John	Saskatoon			CA
Haines; Deborah	Saskatoon			CA
Hassard; Lori	Saskatoon			CA
Harding; John	Humboldt			CA
Charreyre; Catherine Elisabeth	Saint-Laurent de Mure			FR
Chappuis; Gilles Emile	Lyons			FR
McNeilly; Francis	Newtonards			GB

US-CL-CURRENT: 424/204.1; 424/278.1, 424/281.1, 424/93.1, 435/235.1, 435/236, 435/237, 435/238, 435/239, 536/23.72

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 7. Document ID: US 6593134 B1

L3: Entry 7 of 19 File: USPT Jul 15, 2003

US-PAT-NO: 6593134
DOCUMENT-IDENTIFIER: US 6593134 B1

TITLE: Method of propagating chicken infectious anemia virus

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Calnek; Bruce W.	Ithaca	NY		
Lucio-Martinez; Benjamin	Ithaca	NY		
Cardona; Carol	Davis	CA		
Harris; Raymond W.	Dryden	NY		
Schat; Karel A.	Ithaca	NY		

US-CL-CURRENT: 435/325; 435/235.1, 435/236, 435/239, 435/5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 8. Document ID: US 6464984 B2

L3: Entry 8 of 19 File: USPT Oct 15, 2002

US-PAT-NO: 6464984
DOCUMENT-IDENTIFIER: US 6464984 B2
** See image for Certificate of Correction **

TITLE: Avian polynucleotide vaccine formula

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Audonnet; Jean-Christophe	Lyons			FR
Bouchardon; Annabelle	Lyons			FR
Riviere; Michel	Ecully			FR

US-CL-CURRENT: 424/214.1; 424/199.1, 424/202.1, 424/209.1, 435/320.1, 536/23.72

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 9. Document ID: US 6391314 B1

L3: Entry 9 of 19 File: USPT May 21, 2002

US-PAT-NO: 6391314
DOCUMENT-IDENTIFIER: US 6391314 B1
** See image for Certificate of Correction **

TITLE: Porcine circoviruses vaccines diagnostic reagents

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Allan; Gordon	Belfast		GB
Meehan; Brian	Belfast		GB
Clark; Edward	Saskatoon		CA
Ellis; John	Saskatoon		CA
Haines; Deborah	Saskatoon		CA
Hassard; Lori	Saskatoon		CA
Harding; John	Humboldt		CA
Charreyre; Catherine Elisabeth	Saint-Laurent de Mure		FR
Chappuis; Gilles Emile	Lyons		FR
McNeilly; Francis	Newtonards		GB

US-CL-CURRENT: 424/204.1; 424/201.1, 424/202.1, 435/320.1, 514/44

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 10. Document ID: US 6368601 B1

L3: Entry 10 of 19 File: USPT Apr 9, 2002

US-PAT-NO: 6368601
DOCUMENT-IDENTIFIER: US 6368601 B1
** See image for Certificate of Correction **

TITLE: Porcine circovirus vaccine and diagnostics reagents

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Allan; Gordon	Belfast		GB
Meehan; Brian	Belfast		GB
Clark; Edward	Saskatoon		CA
Ellis; John	Saskatoon		CA
Haines; Deborah	Saskatoon		CA
Hassard; Lori	Saskatoon		CA
Harding; John	Humboldt		CA
Charreyre; Catherine Elisabeth	Saint-Laurent de Mure		FR
Chappuis; Gilles Emile	Lyons		FR
McNeilly; Francis	Newtownards		GB

US-CL-CURRENT: 424/204.1; 435/235.1, 435/320.1, 435/5, 514/44, 536/23.1, 536/23.4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

Items 1 - 20 of 107 Page 1 of 6 Next

1: Hussein HA, Youssef MM, Osman A, El-Ebiary EA, Shalaby MA. Related Articles, Links

Immunopathogenesis of attenuated strain of chicken infectious anemia virus in one-day-old specific-pathogen-free chicks.
Egypt J Immunol. 2003;10(1):89-102.
PMID: 15726722 [PubMed - indexed for MEDLINE]

2: McKenna GF, Todd D, Borghmans BJ, Welsh MD, Adair BM. Related Articles, Links

Immunopathologic investigations with an attenuated chicken anemia virus in day-old chickens.
Avian Dis. 2003 Oct-Dec;47(4):1339-45.
PMID: 14708980 [PubMed - indexed for MEDLINE]

3: Yilmaz H, Turan N, Ozgur NY, Helps CR, Akay. Related Articles, Links

Detection of chicken anemia virus DNA in the thymus of naturally infected chicks in turkey.
Avian Dis. 2001 Apr-Jun;45(2):529-33.
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4: Toro H, Gonzalez C, Cerda L, Morales MA, Dooner P, Salamero M. Related Articles, Links

Prevention of inclusion body hepatitis/hydropericardium syndrome in progeny chickens by vaccination of breeders with fowl adenovirus and chicken anemia virus.
Avian Dis. 2002 Jul-Sep;46(3):547-54.
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5: van Santen VL, Joiner KS, Murray C, Petrenko N, Hoerr FJ, Toro H. Related Articles, Links

Pathogenesis of chicken anemia virus: comparison of the oral and the intramuscular routes of infection.
Avian Dis. 2004 Sep;48(3):494-504.
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6: Adair BM. Related Articles, Links

Immunopathogenesis of chicken anemia virus infection.
Dev Comp Immunol. 2000 Mar-Apr;24(2-3):247-55. Review.
PMID: 10717291 [PubMed - indexed for MEDLINE]

7: Brentano L, Lazzarin S, Bassi SS, Klein TA, Schat KA. Related Articles, Links

Detection of chicken anemia virus in the gonads and in the progeny of

broiler breeder hens with high neutralizing antibody titers.
Vet Microbiol. 2005 Jan 5;105(1):65-72. Epub 2004 Dec 8.
PMID: 15607085 [PubMed - indexed for MEDLINE]

☐ 8: Cardona C, Lucio B, O'Connell P, Jagne J, Schat KA. Related Articles, Links

Humoral immune responses to chicken infectious anemia virus in three strains of chickens in a closed flock.
Avian Dis. 2000 Jul-Sep;44(3):661-7.
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☐ 9: Fitzgerald SD, Kingwill SJ, Briggs S, Awolaja O, Basile A, Griffioen L, Potter EA, Wu CC, Taylor SP, Reed WM. Related Articles, Links

Experimental inoculation of avian polyomavirus in chemically and virally immunosuppressed chickens.
Avian Dis. 1999 Jul-Sep;43(3):476-83.
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☐ 10: McNeilly F, Smyth JA, Adair BM, McNulty MS. Related Articles, Links

Synergism between chicken anemia virus (CAV) and avian reovirus following dual infection of 1-day-old chicks by a natural route.
Avian Dis. 1995 Jul-Sep;39(3):532-7.
PMID: 8561738 [PubMed - indexed for MEDLINE]

☐ 11: Corley MM, Giambrone JJ, Dormitorio TV. Related Articles, Links

Detection of infectious bursal disease vaccine viruses in lymphoid tissues after in ovo vaccination of specific-pathogen-free embryos.
Avian Dis. 2001 Oct-Dec;45(4):897-905.
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☐ 12: Dren CN, Kant A, Van Roozelaar DJ, Hartog L, Noteborn MH, Koch G. Related Articles, Links

Studies on the pathogenesis of chicken infectious anaemia virus infection in six-week-old SPF chickens.
Acta Vet Hung. 2000;48(4):455-67.
PMID: 11402662 [PubMed - indexed for MEDLINE]

☐ 13: Markowski-Grimsrud CJ, Schat KA. Related Articles, Links

Infection with chicken anaemia virus impairs the generation of pathogen-specific cytotoxic T lymphocytes.
Immunology. 2003 Jun;109(2):283-94.
PMID: 12757624 [PubMed - indexed for MEDLINE]

☐ 14: Rozypal TL, Skeeles JK, Dash JK, Anderson EJ, Beasley JN. Related Articles, Links

Identification and partial characterization of Arkansas isolates of chicken anemia virus.
Avian Dis. 1997 Jul-Sep;41(3):610-6.
PMID: 9356707 [PubMed - indexed for MEDLINE]

☐ 15: Sommer F, Cardona C. Related Articles, Links

Chicken anemia virus in broilers: dynamics of the infection in two commercial broiler flocks.
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PMID: 14708998 [PubMed - indexed for MEDLINE]

☐ 16: van Santen VL, Li L, Hoerr FJ, Lauerman LH. Related Articles, Links

Genetic characterization of chicken anemia virus from commercial broiler chickens in Alabama.
Avian Dis. 2001 Apr-Jun;45(2):373-88.
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☐ 17: Zhou W, Shen B, Yang B, Han S, Wei L, Xiao B, Zhou J. Related Articles, Links

Isolation and identification of chicken infectious anemia virus in China.
Avian Dis. 1997 Apr-Jun;41(2):361-4.
PMID: 9201400 [PubMed - indexed for MEDLINE]

☐ 18: Markowski-Grimsrud CJ, Miller MM, Schat KA. Related Articles, Links

Development of strain-specific real-time PCR and RT-PCR assays for quantitation of chicken anemia virus.
J Virol Methods. 2002 Mar;101(1-2):135-47.
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Chicken anaemia virus influences the pathogenesis of Marek's disease in experimental infections, depending on the dose of Marek's disease virus.
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L8: Entry 4 of 16 File: DWPI Jan 3, 2005

DERWENT-ACC-NO: 2001-608229
DERWENT-WEEK: 200566

TITLE: New chicken anemia virus (CAV) with low pathogenicity, useful for manufacturing a vaccine for protecting poultry against diseases that results from a CAV infection, as well as controlling these disease in poultry

INVENTOR: JAGT, H J M; SCHRIER, C C

PRIORITY-DATA: 2000EP-0200719 (February 29, 2000)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
MX 225303 B	January 3, 2005		000	A61K039/12
EP 1132466 A1	September 12, 2001	E	016	C12N007/00
AU 200123262 A	August 30, 2001		000	C12N007/01
BR 200100695 A	October 9, 2001		000	A61K035/76
CA 2337618 A1	August 29, 2001	E	000	C12N007/01
US 20010023664 A1	September 27, 2001		000	A01K045/00
JP 2001275664 A	October 9, 2001		036	C12N007/00
ZA 200101583 A	November 28, 2001		028	C12N000/00
HU 200100908 A2	June 28, 2002		000	A61K039/12
KR 2002013361 A	February 20, 2002		000	C12N007/01
NZ 510130 A	September 27, 2002		000	C12N007/02
MX 2001002167 A1	November 1, 2002		000	A61K039/12
US 6723324 B2	April 20, 2004		000	A61K039/12
US 20040156868 A1	August 12, 2004		000	A61K039/155
US 20040157311 A1	August 12, 2004		000	A61K039/155
AU 780550 B2	March 24, 2005		000	C12N007/01

20040157311 A1 , AU 780550 B2

INT-CL (IPC): A01 K 45/00; A61 K 35/76; A61 K 39/12; A61 K 39/155; A61 P 31/12; A61 P 31/20; C12 N 0/00; C12 N 7/00; C12 N 7/01; C12 N 7/02; C12 N 7/04; C12 R 1/93; C12 R 1:93; C12 N 7/00; C12 N 7/02; C12 R 1:93; C12 R 1:93

ABSTRACTED-PUB-NO: EP 1132466A
BASIC-ABSTRACT:

NOVELTY - A chicken anemia virus (CAV), characterized in that the virus is neutralized by a reference sample comprising monoclonal antibody R2 secreted by a hybridoma cell line (a sample of which is deposited at ECACC under accession number 00020304), is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a vaccine for protecting poultry against disease conditions resulting from a CAV infection, comprising the CAV and a pharmaceutical carrier or diluent;

(2) preparing CAV comprising:

(a) inoculating a susceptible substrate with the CAV;

(b) propagating the virus; and

(c) harvesting CAV containing material;

(3) preparing a vaccine for protecting poultry against disease conditions resulting from a CAV infection, comprising combining the harvested CAV obtained in (2), if desired after inactivation of the CAV, with a pharmaceutical carrier or diluent; and

(4) controlling disease conditions resulting from a CAV infection in poultry comprising administering the vaccine to the birds.

ACTIVITY - Virucide.

MECHANISM OF ACTION - Vaccine. Sixty 18-day old embryonated SPF eggs were inoculated in ovo with 0.2 ml of either the commercially available CAV vaccine Nobilis strain P4, CAV strain 319 or embryo homogenate obtained from embryonated SPF eggs. A calculated infectivity titer of 103 TCID50 was inoculated per egg. For a period of eight weeks post hatch, chicken were observed daily for the occurrence of clinical signs of disease or mortality. At 7 and 21 days of age, no changes of the thymus were observed for those vaccinated with CAV vaccine Nobilis strain P4. At 14 days of age, three chickens exhibited slight atrophy of the thymus and 2 chickens exhibited moderate atrophy of the thymus. At 7, 14 and 21 days of age, no changes of the bone marrow were observed. For those vaccinated with CAV strain 319, no changes of both thymus and bone marrows were observed in chickens at 7, 14 and 21 days of age. The hematocrit values determined at 7, 14 and 21 days of age were all above 27%. The hematocrit values revealed that none of the chicken was anemic.

USE - The CAV is useful for manufacturing a vaccine for controlling disease conditions that results from a CAV infection in poultry (claimed), as well as in protecting birds or poultry from these diseases.

ABSTRACTED-PUB-NO:

US20010023664A
EQUIVALENT-ABSTRACTS:

NOVELTY - A chicken anemia virus (CAV), characterized in that the virus is neutralized by a reference sample comprising monoclonal antibody R2 secreted by a hybridoma cell line (a sample of which is deposited at ECACC under accession number 00020304), is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a vaccine for protecting poultry against disease conditions resulting from a CAV infection, comprising the CAV and a pharmaceutical carrier or diluent;

(2) preparing CAV comprising:

(a) inoculating a susceptible substrate with the CAV;

(b) propagating the virus; and

(c) harvesting CAV containing material;

(3) preparing a vaccine for protecting poultry against disease conditions resulting from a CAV infection, comprising combining the harvested CAV obtained in (2), if desired after inactivation of the CAV, with a pharmaceutical carrier or diluent; and

(4) controlling disease conditions resulting from a CAV infection in poultry comprising administering the vaccine to the birds.

ACTIVITY - Virucide.

MECHANISM OF ACTION - Vaccine. Sixty 18-day old embryonated SPF eggs were inoculated in ovo with 0.2 ml of either the commercially available CAV vaccine Nobilis strain P4, CAV strain 319 or embryo homogenate obtained from embryonated SPF eggs. A calculated infectivity titer of 103 TCID50 was inoculated per egg. For a period of eight weeks post hatch, chicken were observed daily for the occurrence of clinical signs of disease or mortality. At 7 and 21 days of age, no changes of the thymus were observed for those vaccinated with CAV vaccine Nobilis strain P4. At 14 days of age, three chickens exhibited slight atrophy of the thymus and 2 chickens exhibited moderate atrophy of the thymus. At 7, 14 and 21 days of age, no changes of the bone marrow were observed. For those vaccinated with CAV strain 319, no changes of both thymus and bone marrows were observed in chickens at 7, 14 and 21 days of age. The hematocrit values determined at 7, 14 and 21 days of age were all above 27%. The hematocrit values revealed that none of the chicken was anemic.

USE - The CAV is useful for manufacturing a vaccine for controlling disease conditions that results from a CAV infection in poultry (claimed), as well as in protecting birds or poultry from these diseases.

ABSTRACTED-PUB-NO: EP 1132466A
EQUIVALENT-ABSTRACTS: US20010023664A NOVELTY - A chicken anemia virus (CAV), characterized in that the virus is neutralized by a reference sample comprising monoclonal antibody R2 secreted by a hybridoma cell line (a sample of which is deposited at ECACC under accession number 00020304), is new. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (1) a vaccine for protecting poultry against disease conditions resulting from a CAV infection, comprising the CAV and a pharmaceutical carrier or diluent; (2) preparing CAV comprising: (a) inoculating a susceptible substrate with the CAV; (b) propagating the virus; and (c) harvesting CAV containing material; (3) preparing a vaccine for protecting poultry against disease conditions resulting from a CAV infection, comprising combining the harvested CAV obtained in (2), if desired after inactivation of the CAV, with a pharmaceutical carrier or diluent; and (4) controlling disease conditions resulting from a CAV infection in poultry comprising administering the vaccine to the birds. ACTIVITY - Virucide. MECHANISM OF ACTION - Vaccine. Sixty 18-day old embryonated SPF eggs were inoculated in ovo with 0.2 ml of either the commercially available CAV vaccine Nobilis strain P4, CAV strain 319 or embryo homogenate obtained from embryonated SPF eggs. A calculated infectivity

titer of 103 TCID50 was inoculated per egg. For a period of eight weeks post hatch, chicken were observed daily for the occurrence of clinical signs of disease or mortality. At 7 and 21 days of age, no changes of the thymus were observed for those vaccinated with CAV vaccine Nobilis strain P4. At 14 days of age, three chickens exhibited slight atrophy of the thymus and 2 chickens exhibited moderate atrophy of the thymus. At 7, 14 and 21 days of age, no changes of the bone marrow were observed. For those vaccinated with CAV strain 319, no changes of both thymus and bone marrows were observed in chickens at 7, 14 and 21 days of age. The hematocrit values determined at 7, 14 and 21 days of age were all above 27%. The hematocrit values revealed that none of the chicken was anemic. USE - The CAV is useful for manufacturing a vaccine for controlling disease conditions that results from a CAV infection in poultry (claimed), as well as in protecting birds or poultry from these diseases.

CHOSEN-DRAWING: Dwg.0/0

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